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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,644	03/01/2004	Peter O. Roach JR.	11126.105001	9770

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EXAMINER

TRAN, CHUC

ART UNIT	PAPER NUMBER
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2821

DATE MAILED: 09/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/790,644

Applicant(s)

ROACH, PETER O.

Examiner

Chuc D. Tran

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 24 July 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,3,4,6-10,12,13,15-18,20-31,33-40,42 and 57-79 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 21-30 is/are allowed.
- 6) ☒ Claim(s) 1,3,4,6-10,12,13,15-18,20,31,33-40,42 and 57-79 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 05/07/04,02/13/06.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Allowable Subject Matter***

1. The indicated allowability of claims 1, 3-4, 6-10, 12-13, 15-18, 20, 22-23, 28, 31, 33-40, 42, 58-59 and 62-79 are withdrawn in view of the newly discovered reference(s) to Oishi Sadatoshi (JP 08-237763) and Hsiao (USP. 6,472,824). Rejections based on the newly cited reference(s) follow.

### ***Response to Arguments***

2. Applicant's arguments with respect to claims 21, 24-27, 29-30, 57 and 60-61 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 57-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oishi Sadatoshi (JP. 08-237763) in view of Fujii Kunio (JP. 2001-015071).

Regarding claims 57 and 60-62, Oishi Sadatoshi disclose in Fig. 11 a wireless network component (21) configured for being mounted to a fluorescent light (22), comprising:

- a housing (24) containing the wireless network component (Abstract);
- one or more power coupling pin protruding from one side of the housing and configured to be inserted into a receptacle within a fluorescent light fixture that would otherwise receive one or more pin of the fluorescent lamp (22) (Fig. 1);

- one or more fluorescent lamp pin connector located on an opposite side of the housing and electrically connected to the one or more power coupling pin, wherein the one or more fluorescent lamp pin connector is configured to receive the one or more pin of the fluorescent lamp (Fig. 1); wherein the one or more power coupling pin and the one or more fluorescent lamp pin connector are offset relative to each other such that the fluorescent lamp is installed between the one or more fluorescent lamp pin connector and a second receptacle of the fluorescent light fixture (Fig. 1). However, Oishi Sadatoshi does not go to details of a transparent light support tube attached to at least a portion of the housing for dissipating heat generated by the fluorescent tube; and wherein the support tube fits over the fluorescent lamp and attaches to the housing so as to mount the housing to the fluorescent lamp. Kunio disclose a wireless network component in Fig. 5, comprising the transparent light support tube (5) attached to the at least portion of the housing for dissipating heat generated by the fluorescent tube (4) (Kunio, Fig. 5); and wherein the support tube (5) fits over the fluorescent lamp (4) and attaches to the housing so as to mount the housing to the fluorescent lamp (Kunio, Fig. 5). Thus, it would have been obvious to one having ordinary skill in the art to recognize Sadatoshi's wireless network component by providing the support tube being mounting over the fluorescent lamp as taught by Kunio. The ordinary artisan would have been motivated to modify Sadatoshi in the manner described above for transmitting visible light from fluorescent light tube See (Kunio's Abstract). It's matter of obvious of design choice.

Regarding claim 58, Sadatoshi disclose in Fig. 2 that one or more fluorescent lamp pin connector is electrically connected to the one or more power coupling pin via a power converter (38) internal to the housing (24) (Fig. 2).

Regarding claim 59, Sadatoshi disclose in Fig. 2 that the power converter (38) receives power from power source of the fluorescent light (22) via the one or more power coupling pin (Fig. 2); and wherein the power converter supplies the power to the internal electronics of the wireless network component and to the fluorescent lamp pin connector (Sadatoshi, [0030]).

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1, 3-4, 6-10, 12-13, 15-18, 20, 31, 33-40, 42 and 63-79 are rejected under 35 U.S.C. 102(b) as being anticipated by Hsiao (USP. 6,472,824).

Regarding claims 1, 13, 16, 63-65, Hsiao disclose a wireless network component configured for being mounted to a fluorescent light in Fig. 1-3, comprising:

- a housing (10) containing the wireless network component (21) and including a recess channel (13) for receiving a fluorescent lamp (70) installed within a fluorescent light fixture (60);

- a support tube (12) configured to be removably attached to at least a portion of the housing above the recess channel and for fitting over the fluorescent lamp such that the housing is mounted to the fluorescent lamp (Fig. 2); and

wherein at least a portion (11) of the support tube is at least partially transparent (Fig. 1 and 2).

Regarding claim 3, Hsiao disclose that the housing is suspended below the fluorescent lamp when the housing is mounted to the fluorescent lamp (Fig. 2).

Regarding claims 4 and 15, Hsiao disclose that the support tube includes joints that are designed to fit within corresponding grooves on the housing (Fig. 1).

Regarding claims 6, 66, Hsiao disclose that the support tube is designed to dissipate heat generated by the fluorescent lamp (Fig. 2).

Regarding claims 7, 17, 67, Hsiao disclose that the support tube includes one or more vents to dissipate the heat (Fig. 2).

Regarding claims 8, 68, Hsiao disclose that the support tube is generally semi cylindrical in shape (Fig. 1).

Regarding claims 9, 18, 69, Hsiao disclose that the support tube is generally cylindrical in shape (Fig. 1).

Regarding claims 10, 70, Hsiao disclose that the support tube is configured to be opened in order to insert the fluorescent lamp therein (Fig. 1).

Regarding claims 12, 20, 71, Hsiao disclose that the housing includes a window to allow light emitted by the fluorescent lamp to pass through the housing (Fig. 2).

Claims (method) 31, 33-40, 42, and 72-79 given the apparatus of a wireless network component as applied to claims 1-20 (apparatus), the method for the apparatus as claimed in claims 1-20 is inherent.

Regarding claims 31, 72, Hsiao disclose in Fig. 1-4 a method for configuring a wireless network component for being mounted to a fluorescent light comprising:

- containing the wireless network component (21) within a housing (10) that includes a recess channel (12) for receiving a fluorescent lamp installed within a fluorescent light fixture (Fig. 2); and

mounting the housing to a the fluorescent lamp using a support tube that fits over the fluorescent lamp and removably attaches to at least a portion of the housing generally above the recess channel (Fig. 1 and 2).

Regarding claims 33, 73, Hsiao disclose that the housing (10) is suspended below the fluorescent lamp when the housing is mounted to the fluorescent lamp (Fig. 2).

Regarding claim 34, Hsiao disclose that the support tube includes joints that are designed to fit within corresponding grooves on the housing (Fig. 3).

Regarding claims 35, 74, Hsiao disclose that at least a portion of the support tube is at least partially transparent (Fig. 1 and 2).

Regarding claims 36, 75, Hsiao disclose that the support tube is designed to dissipate heat generated by the fluorescent lamp (Fig. 2).

Regarding claim 37, Hsiao disclose that the support tube includes one or more vents to dissipate the heat (Fig. 2).

Regarding claims 38, 76, Hsiao disclose that the support tube is generally semi-cylindrical in shape (Fig. 1).

Regarding claims 39, 77, Hsiao disclose that the support tube is generally cylindrical in shape (Fig. 1).

Regarding claims 40, 78, Hsiao disclose that the support tube is configured to be opened in order to insert the fluorescent lamp therein (Fig. 1).

Regarding claims 42, 79, Hsiao disclose that the housing includes a window to allow light emitted by the fluorescent lamp to pas through (Fig. 2).

***Allowable Subject Matter***

7. Claims 21-30 are allowed.
8. The following is an examiner's statement of reasons for allowance:

Prior art fails to disclose or fairly suggest, in combination with the remaining claimed limitations the fluorescent lamp is disposed at a non-zero angle relative to its intended axis within the fluorescent light fixture in independent claim 21.

Claims 22-30 are allowed since they are dependent on claim 21.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Citation of relevant prior art***

Prior art Shitochi Masaaki (JP. 06-054130) disclose Image reader.

Prior art Cooke (USP. 4,100,547) disclose fluorescent tube indicator mounted on antenna.

Prior art Brownlee (USP. 4,114,299) disclose radiation powered illuminated display.

Prior art Uehara et al (USP. 5,424,859) disclose transceiver for wireless in building communication system.

***Inquiry***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuc D. Tran whose telephone number is (571) 272-1829. The examiner can normally be reached on M-F Flex hours.

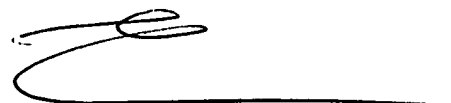


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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TC  
September 24, 2006



**THO PHAN  
PRIMARY EXAMINER**